Oracle® Virtual Desktop Client

User Guide for Release 3.2

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Oracle® Virtual Desktop Client: User Guide for Release 3.2

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Abstract

This manual describes how to use Oracle Virtual Desktop Client to log in to a Sun Ray Software or Oracle Virtual Desktop Infrastructure server and start or reconnect to a desktop session.

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Preface

The *Oracle Virtual Desktop Client User Guide for Release 3.2* provides an introduction to using Oracle Virtual Desktop Client. The manual provides information on how you can use Oracle Virtual Desktop Client to start or reconnect to a Sun Ray Software or Oracle Virtual Desktop Infrastructure desktop session.

Audience

This document is intended for new users of Oracle Virtual Desktop Client. It is assumed that readers are familiar with Web technologies.

Document Organization

The document is organized as follows:

- Chapter 1, *Using Oracle Virtual Desktop Client* describes how to use Oracle Virtual Desktop Client to connect to a desktop session.
- Chapter 2, *Oracle Virtual Desktop Client Features* describes how you can use some of the features of Oracle Virtual Desktop Client.
- Chapter 3, *Configuration Settings* describes the available configuration settings for Oracle Virtual Desktop Client.
- Chapter 4, *Running Oracle Virtual Desktop Client From the Command Line* describes how to configure and run Oracle Virtual Desktop Client from the command line.
- Chapter 5, *Using Profiles* describes how to use profiles with Oracle Virtual Desktop Client.
- Chapter 6, *Troubleshooting Oracle Virtual Desktop Client* includes some troubleshooting topics for Oracle Virtual Desktop Client.
- Chapter 7, *Uninstalling Oracle Virtual Desktop Client* describes how to uninstall Oracle Virtual Desktop Client.
- Chapter 8, *Third-Party Legal Notices* contains the legal notices for third-party software used by Oracle Virtual Desktop Client.

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Related Documents

The documentation for this product is available at:

http://www.oracle.com/technetwork/documentation/virtualdesktopclient-411777.html.

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
`monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Chapter 1. Using Oracle Virtual Desktop Client

This chapter describes how to use Oracle Virtual Desktop Client to log in to a Sun Ray Software or Oracle Virtual Desktop Infrastructure server and start or reconnect to a desktop session.

1.1. About Oracle Virtual Desktop Client

Oracle Virtual Desktop Client is an application that enables you to access your virtual desktop from anywhere and from almost any device. It allows you to easily and securely access desktop applications and data that are hosted in your data center. Because Oracle Virtual Desktop Client installs on a variety of client operating systems, you can use your PC, laptop, or iPad as an alternative to using a Sun Ray Client to access your virtual desktop.

Oracle Virtual Desktop Client connects you to a Sun Ray Software or Oracle Virtual Desktop Infrastructure server to access your virtual desktop.

The computer that you use to run Oracle Virtual Desktop Client and connect to the server is called the *client computer*.

This manual describes the version of Oracle Virtual Desktop Client that runs on Microsoft Windows, Mac OS X, and Linux platforms. Documentation for the iPad version of Oracle Virtual Desktop Client is available at: http://www.oracle.com/technetwork/documentation/virtualdesktopclient-411777.html.

1.2. Before You Begin

Before you begin to use Oracle Virtual Desktop Client, check the following:

- Ensure you know the user name and password for your Sun Ray Software or Oracle Virtual Desktop Infrastructure session.

  Alternatively, ensure you have a smart card that will enable you to log in to your session.

- (Optional) Ensure you know the name or IP address of your Sun Ray Software or Oracle Virtual Desktop Infrastructure server.

  Contact your administrator if you need to know the name of your server.

  This information is only required if you need to connect to a specific server. Alternatively, you can use Oracle Virtual Desktop Client to find a server on your network automatically. See Section 1.3.1, “Auto Discovery of Servers”.

1.3. Connecting to a Server

1. Start Oracle Virtual Desktop Client.

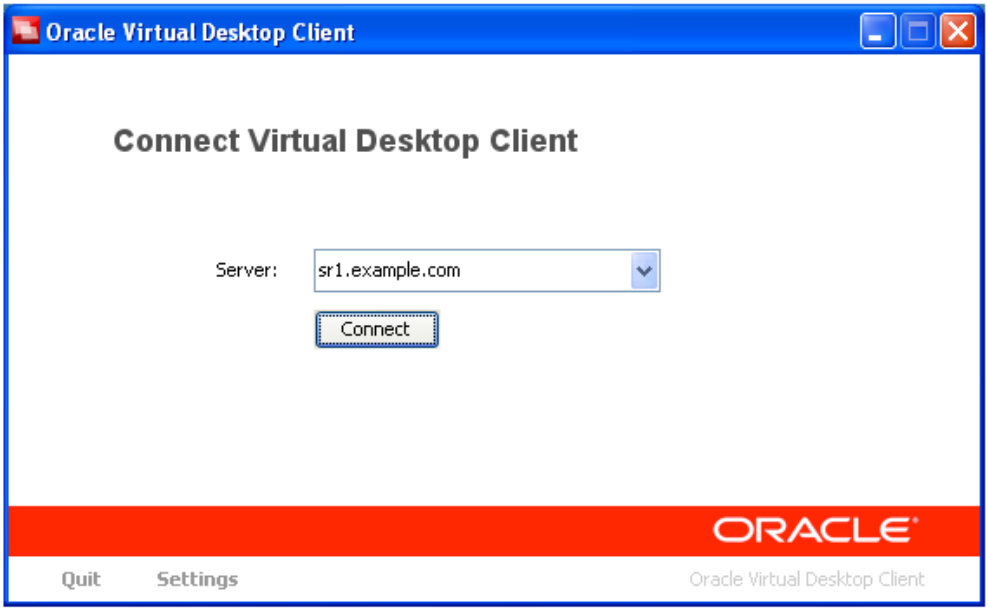
   - **On Microsoft Windows platforms.** In the Windows Start Menu, choose the **All Programs**, **Oracle Virtual Desktop Client**, **Oracle Virtual Desktop Client** option.

   - **On Mac OS X platforms.** In the **Applications** folder, click the **Oracle Virtual Desktop Client** application icon.

   - **On Linux platforms.** In the Launch Menu, choose the **Applications**, **Internet**, **Oracle Virtual Desktop Client** option.

     The Oracle Virtual Desktop Client connect screen is shown.

Figure 1.1. Oracle Virtual Desktop Client Connect Screen for Microsoft Windows Platforms



2. Specify a server to connect to.

   For the Server setting, do one of the following:

   - **Choose the Find Automatically option.** Choose this option if you want Oracle Virtual Desktop Client to find a server on your network automatically. See Section 1.3.1, “Auto Discovery of Servers”.
   - **Enter the name of a server.** If you know the name of the server, enter this in the text field.

     Depending on how your network is configured, you can use one or more of the following names:

     - The full name of the server on the network, also called the DNS name. For example, `sr-1.example.com`.
     - The host name of the server. For example, `sr-1`.
     - The IP address of the server. For example, `123.456.789.12`.

3. Connect to the server.

   Click the **Connect** button.

   Oracle Virtual Desktop Client connects to the server and displays the login screen.

4. Log in to the session.

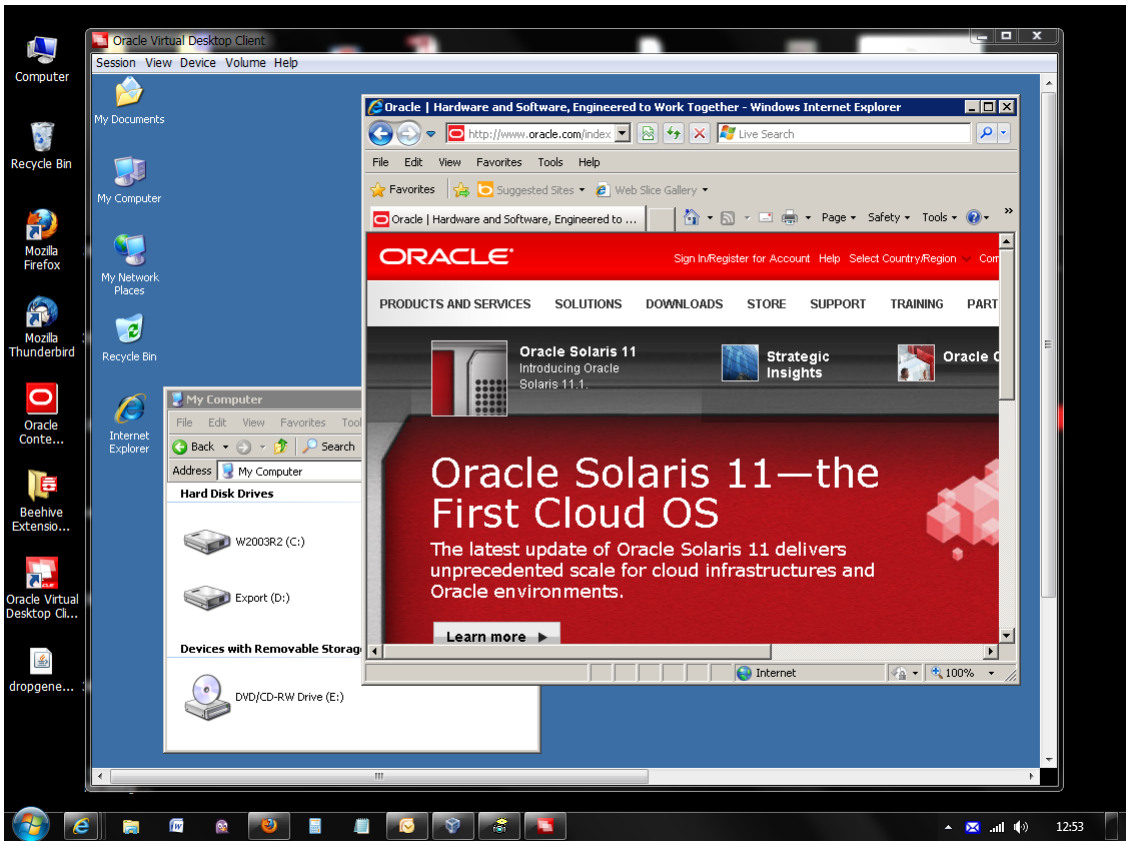
   Do one of the following:

   - Enter the user name and password for your user account.
   - Insert a smart card into a smart card reader attached to the client computer.

   Your virtual desktop session is shown on the client computer using one of the following display modes:

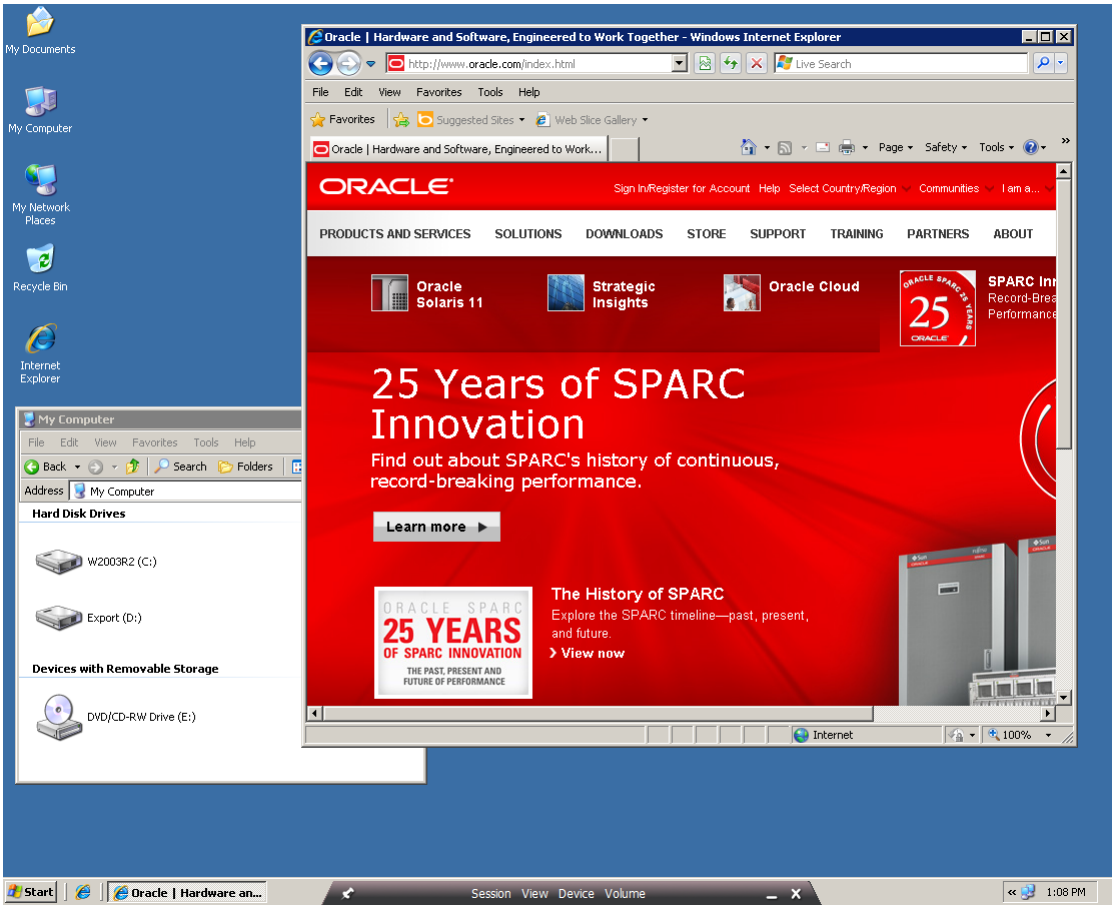
- **Windowed mode.** The session is displayed in a portion of the screen.

Figure 1.2. Oracle Virtual Desktop Client Running in Windowed Mode



- **Full screen mode.** The session fills the whole screen area.

Figure 1.3. Oracle Virtual Desktop Client Running in Full Screen Mode



You can switch between full screen and windowed display mode during a session. See Section 1.5, “Making Configuration Changes During a Session”.

Note

The appearance of the desktop session will vary, depending on the type of desktop session. For example, if you are connecting to a Sun Ray Software server you might see a Sun Ray Java Desktop System (JDS) desktop session. If you are connecting to a Oracle Virtual Desktop Infrastructure server you might see a Windows desktop session.

1.3.1. Auto Discovery of Servers

If you use the Find Automatically option in the Server field on the connect screen to find a server on your network automatically, you do not need to know the name of your server.

Oracle Virtual Desktop Client includes the ability to automatically discover servers for connection. This auto discovery process uses several techniques including Dynamic Host Configuration Protocol (DHCP), DNS lookups, and broadcast to select a server on your network automatically.

Auto discovery of servers is enabled when you turn on the Find Automatically option. Oracle Virtual Desktop Client then finds a server on your network automatically.

Note

Depending on your network configuration, auto discovery may not be available when accessing the network from remote locations. If auto discovery is not available, contact your administrator for details of the server name.

1.4. Disconnecting From a Session

1. (Optional) Log out of the session.

   The procedure used to log out of a session depends on the type of session. For example:

   - For an Oracle Virtual Desktop Infrastructure Windows desktop session, click **Log Off** in the Windows Start menu or remove your smart card.
   - For a Sun Ray Java Desktop System (JDS) desktop session, click **Log Out** in the Sun Ray Launch menu or remove your smart card.

2. Disconnect from the server.

   Do one of the following:

   - Press the Host-Q key combination.

     By default, this is Right Ctrl-Q. See Section 3.4, “Keyboard Tab” for more details about setting the Host key.

   - In windowed mode, choose the **Session**, **Disconnect** menu option.
   - In full screen mode, click the window close icon in the toolbar.

     To display the toolbar, move your mouse to the bottom of the screen.

   The Oracle Virtual Desktop Client connect screen is shown.

3. Close down Oracle Virtual Desktop Client.

   Click **Quit** or use the window close icon to close down Oracle Virtual Desktop Client.

1.5. Making Configuration Changes During a Session

Oracle Virtual Desktop Client provides the following ways of making configuration changes during a session:

- **Full screen mode.** Use the toolbar.

  See Section 1.5.1, “Using the Toolbar”

- **Windowed mode.** Use the menu bar.

  See Section 1.5.2, “Using the Menu Bar”

1.5.1. Using the Toolbar

In full screen mode, a toolbar enables you to make configuration changes during a session.

To display the toolbar, move your mouse to the bottom of the screen.

Figure 1.4. Full Screen Mode Toolbar

The toolbar includes the following icons.

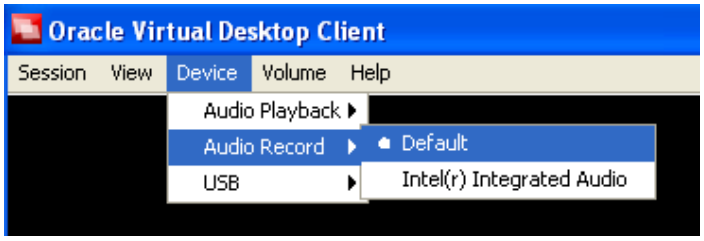
- **Pin.** By default, the toolbar hides automatically when not in use. Click this icon to make the toolbar stay on screen. Click again to revert to the default behavior.
- **Minimize Window.** Click to minimize the window.
- **Window Close.** Click to close the window and disconnect from the session.

The toolbar also includes menu options. The available menu options are described in Section 1.5.3, "Supported In-Session Configuration Settings".

1.5.2. Using the Menu Bar

In windowed mode, a menu bar enables you to make configuration changes during a session.

Figure 1.5. Windowed Screen Mode Menu Bar



The available menu options are described in Section 1.5.3, "Supported In-Session Configuration Settings".

1.5.3. Supported In-Session Configuration Settings

The settings listed in Table 1.1, "In-Session Menu Options" can be configured during a session.

Table 1.1. In-Session Menu Options

Menu	Description
Session	The following options are available: • **Keyboard Capture**. Full screen mode only. Captures any local keyboard shortcuts entered by the user. For example, on Windows client platforms the Alt + Tab keyboard shortcut switches between programs on the client computer. Enabling this option means you can use the keyboard shortcut in the remote session. This option is not available on Mac OS X client platforms. • **Send Ctrl-Alt-Del**. Enters a Ctrl-Alt-Del key stroke combination. • **Disconnect**. Windowed mode only. Disconnects you from the current session.
View	The following options are available:

Menu	Description
	• **Window**. Full screen mode only. Enables the user to switch to windowed mode. • **Span All Screens**. Multiple monitors only. The display is shown across multiple screens. • **Fullscreen Display** *number*. Multiple monitors only. Select the screen you want to use for the display. The number of options shown depends on the number of monitors used.
Device	Enables you to select devices to use in the session. The devices must be attached to the client computer. For example, you can select an audio device to use for audio playback or audio recording. If a USB device in the Device menu is grayed out, this means that the device is in use on the client computer and is not available for USB redirection. When using a USB memory stick on Mac OS X platforms, for example, you may need to eject the device to make it available for USB redirection.
Volume	Displays a volume slider, enabling the audio volume to be adjusted. The Mute option turns off the audio volume.
Help	Windowed mode only. Displays system information, Java Runtime Environment (JRE) version, and the Oracle Virtual Desktop Client version. On Mac OS X client platforms, this information is shown in the Oracle Virtual Desktop Client menu.

Chapter 2. Oracle Virtual Desktop Client Features

This chapter describes some of the main features of Oracle Virtual Desktop Client.

2.1. Using USB Devices

You can access local USB devices from within your remote Sun Ray or Oracle Virtual Desktop Infrastructure session with Oracle Virtual Desktop Client. This feature enables you to use USB devices such as memory sticks that are attached to the client computer.

Note

Oracle Virtual Desktop Client does not allow access to USB devices for Solaris or Linux desktop sessions running on a Sun Ray server. USB access is supported when you use Oracle Virtual Desktop Infrastructure or the Sun Ray Windows connector to access applications running on a remote Microsoft Windows system.

USB redirection is currently not available for isochronous devices.

To enable Oracle Virtual Desktop Client to use USB devices, select the Enable USB check box on the USB tab. The devices on the client computer that are available for USB redirection are shown on this tab.

By default, devices such as the keyboard and mouse on the client computer are not shown. To show all USB devices attached to the client computer, select the Show All Devices check box on the USB tab.

See the *Sun Ray Software Administration Guide* for more details about using USB devices with Sun Ray Software.

2.2. Using Smart Cards

You can log in to a server from Oracle Virtual Desktop Client by inserting a smart card into a smart card reader attached to the client computer.

You can use smart cards with Oracle Virtual Desktop Client for the following tasks:

- **Hotdesking.** This is where you start a desktop session on one client computer and resume the session from a different client computer.
- **Use by applications.** Applications running in a remote session can access smart cards inserted in a smart card reader attached to the client computer. Typically, this feature is used to provide two-factor authentication with digital certificates, or to enable the use of electronic signatures or other information stored on a smart card.

  To use this feature in a Sun Ray session, the remote server must be running at least Sun Ray Software version 5.3.

See the *Sun Ray Software Administration Guide* for more details about using smart cards for these tasks.

To enable Oracle Virtual Desktop Client to use smart cards, select the Enable Smart Card check box on the Smart Card tab.

If the client computer has more than one smart card reader attached, you can select a smart card reader for hotdesking and for use by applications. The available smart card readers on the client computer are shown in the Smart Card Reader list box. Select a smart card reader from this list.

Note

Your administrator might need to enable features such as hotdesking and using a smart card with applications.

2.3. Multiple Monitors

You can use Oracle Virtual Desktop Client with multiple monitors in the following ways:

- **Span the display across all monitors.** The displays of all the monitors are combined to form a single large "virtual display". The desktop session is then shown using the whole of the virtual display. To enable this mode, select the Span All Screens option for the Full Screen setting on the Display tab.
- **Display the desktop session on a single monitor.** You use one of your monitors to display the desktop session, leaving the remaining monitors free to run other applications. To enable this mode, select the screen you want to use for the desktop session from the Full Screen list on the Display tab.

2.4. Clipboard Sharing

Clipboard sharing enables you to copy and paste text between applications running on the remote server and applications running on the client computer.

For example, you might be using a text editor application in a Sun Ray desktop session. You can copy text from this application and paste it into an application running on your computer. Alternatively, you can copy text from an application running on your computer and paste it into a text editor application running in your Sun Ray desktop session.

Oracle Virtual Desktop Client supports the copy and paste of Unicode characters.

Note

To copy and paste, the clipboard service must be enabled on the server. This is done by enabling the Oracle Virtual Desktop Client Clipboard option in the Sun Ray Software Admin GUI, as described in the *Sun Ray Software Administration Guide*.

To use the clipboard service in a Sun Ray or Oracle Virtual Desktop Infrastructure session, the remote server must be running at least Sun Ray Software version 5.3. This version of Sun Ray Software is supplied with Oracle Virtual Desktop Infrastructure version 3.4.

Clipboard sharing is configured on the client computer by using the Allow Clipboard Sharing check box on the Advanced tab. This setting is enabled by default. Note that enabling the Allow Clipboard Sharing setting on this tab has no effect if the clipboard service is not enabled on the server.

If you want to disable use of the clipboard service, deselect the Allow Clipboard Sharing check box on the Advanced tab.

2.5. Playing and Recording Audio

To play audio from a desktop session on your computer, select the Enable Audio Playback check box on the Audio tab. Then when you play a podcast, for example, the sound is output through the speakers on your computer.

To record audio input from your computer in a desktop session, select the Enable Audio Record check box on the Audio tab. You can then connect a microphone to your client computer, for example, and record the sound using software running on the server.

Note

Your administrator might need to enable audio for desktop sessions.

You can change audio settings such as volume or audio device, during a session. Use the menu bar when in windowed mode, or the toolbar when in full screen mode.

Chapter 3. Configuration Settings

Oracle Virtual Desktop Client is configured using a series of tab screens, called the Settings tabs. To display the Settings tabs, click the Settings link on the Oracle Virtual Desktop Client connect screen.

You use the Settings tabs to configure Oracle Virtual Desktop Client before you connect to a session. For details of the settings you can change during a session, see Section 1.5, “Making Configuration Changes During a Session”.

3.1. Display Tab

You use the Display tab to configure display window settings for the connection.

Table 3.1, “Display Tab” shows the available settings for this tab.

Table 3.1. Display Tab

Setting	Description
Display	The display mode for the session. The following options are available: • **Window**. The session is displayed in a window on screen. • **Full Screen**. The session fills the whole screen area. To exit from full screen mode, enter Host-Q or use the on-screen toolbar. If Full Screen is selected, the following options are available when using multiple monitors: • **Span All Screens**. The display is shown across multiple screens. • **Display** *number*. Select the screen you want to use to display the session. The number of options shown depends on the number of monitors used.
Dynamic Session Resize	The remote desktop is resized automatically to fit the size of your local Oracle Virtual Desktop Client session, even if you resume a remote desktop session that is a different size to the local session. If you resize a local session in windowed mode using the mouse, or switch between windowed mode and full screen mode, the remote desktop is resized automatically to be the same size as your local session.
Preferred Session Size	The preferred display size for the session. The following options are available: • **Auto Size**. The session is displayed at the optimal size for the screen. If Full Screen is selected, the session is sized to fit the whole screen. • **User Specified Display Size**. Either select from the predefined list of display sizes, or enter the width and height of the session, in pixels. For example, 640 x 480. If Full Screen is selected and the session dimensions are greater than the dimensions of the screen, the display moves when your mouse pointer is near the edge of the screen. This is called *panning*. If the session dimensions are less than the width of the screen, black bands are shown around the visible screen area.

Setting	Description
	For multiple monitors, if you specify a session width or session height greater than the width or height of the primary display, the display is panned. If you specify a session size, for example, 1024 x 768, the session size is fixed and dynamic session resizing is not used. **Note** Policies on a Sun Ray server might result in the actual display size of your session being different to the display size you request.

3.2. Advanced Tab

You use the Advanced tab to configure a list of servers used with Oracle Virtual Desktop Client. The list of servers is shown in the Server field on the connect screen.

The list of servers is automatically populated as you use Oracle Virtual Desktop Client.

If the list contains incorrect or outdated host names, you can use the Remove and Remove All buttons to remove servers from the list.

Table 3.2. Advanced Tab

Setting	Description
Server List	Enables you to configure a list of servers used with Oracle Virtual Desktop Client. The list of servers is shown in the Server field on the connect screen. The list of servers is automatically populated as you use Oracle Virtual Desktop Client. If the list contains incorrect or outdated host names, you can use the Remove and Remove All buttons to remove servers from the list.
Enable Serial Port Communication	Enables you to access a device that is connected to a serial port on the client computer from the session. USB-to-serial adapters on the client computer can also be used. Devices added during a Sun Ray session are detected automatically. Serial port device nodes are listed in the `$DTDEVROOT` directory for a Sun Ray session.
Allow Clipboard Sharing	Enables you to copy and paste text between an application running in the remote session and an application running on the client computer. To use this setting, the server must be configured to use the Oracle Virtual Desktop Client clipboard.
Secure Profile Entries	Security-sensitive profile entries, such as the client key, are not shown in the profile file. If you deselect this check box, all profile file entries are shown in the profile file.

3.3. Network Tab

You use the Network tab to configure network connection and data compression settings.

Table 3.3, “Network Tab” shows the available settings for this tab.

Table 3.3. Network Tab

Setting	Description
Bandwidth Limit	Maximum bandwidth for the connection, in megabits per second. The default setting is 75 megabits per second, which is the maximum value. Decrease this setting if you are using a low bandwidth connection, or if you want to restrict the amount of server bandwidth used by Oracle Virtual Desktop Client.
Maximum Transmission Unit (MTU)	This is the maximum packet size for network connections, in bytes. The default setting is 1500 bytes, which is the maximum value. If you are experiencing problems when using a Virtual Private Network (VPN), you might want to decrease this value. See Section 6.1, “Adjusting the MTU Setting”.
MTU Auto Detect	Oracle Virtual Desktop Client detects the optimum MTU setting for the connection automatically. The Maximum Transmission Unit (MTU) setting is not used when you enable this setting.
Force Compression	Compresses all packets before transmission, regardless of the available bandwidth.
Lossless Compression	Disables the use of lossy compression for image data. Choose this setting if you want a high-quality display.
Network Protocol	The type of network addresses used by computers on the network. The default setting is Auto. This setting selects the network protocol automatically.

3.4. Keyboard Tab

You use the Keyboard tab to configure settings for keyboards used with Oracle Virtual Desktop Client.

Table 3.4, “Keyboard Tab” shows the available settings for this tab.

Table 3.4. Keyboard Tab

Setting	Description
Host Key	The Host key is used in keyboard shortcuts for Oracle Virtual Desktop Client. For example, you enter Host-Q to quit Oracle Virtual Desktop Client. The default Host key is the Right Ctrl key. **Note** Some of the available Host Key options might not work on your computer. If the configured Host key does not work, use an alternative Host key.
Keyboard Country Code	Country code for the keyboard on the client computer.

Setting	Description
	Oracle Virtual Desktop Client automatically detects the keyboard country code from the operating system on the client computer. Specify a value from 0 to 255 if you want to override this.

Table 3.5, “Host Key Combinations” shows the supported keyboard shortcuts when using the Host key.

Table 3.5. Host Key Combinations

Key Combination	Description
Host-Q	Exits from Oracle Virtual Desktop Client.
Host-F	Toggles between full screen mode and windowed mode.
Host-N	Displays network settings, such as the IP address of the client computer, and the client ID for Oracle Virtual Desktop Client.
Host-*n*	Multi-monitor displays only. Specifies which monitors are used for the display. *n* is a number, as follows: • 0 - Span display across all monitors • 1 - Uses the primary monitor only. • 2 - Uses the secondary monitor only. • n - (Multihead monitors only). Uses the *n*th monitor only.

3.5. USB Tab

You use the USB tab to enable access to local USB devices from within your remote Sun Ray or Oracle Virtual Desktop Infrastructure session with Oracle Virtual Desktop Client. This feature is called USB redirection, and enables you to use USB devices such as memory sticks that are attached to the client computer.

Note

Oracle Virtual Desktop Client does not allow access to USB devices for Solaris or Linux desktop sessions running on a Sun Ray server. USB access is supported when you use Oracle Virtual Desktop Infrastructure or the Sun Ray Windows connector to access applications running on a remote Microsoft Windows system.

USB redirection is currently not available for isochronous devices.

Table 3.6, “USB Tab” shows the available settings for this tab.

Table 3.6. USB Tab

Setting	Description
Enable USB	Enables you to access USB devices that are attached to the client computer from within the remote session.
USB List	Shows a list of the devices on the client computer that are available for USB redirection. By default, devices such as the mouse and keyboard on the client computer are not included in the list. Typically, these devices do not use USB redirection.

Setting	Description
	Select from the available USB devices on the client computer.
Show All Devices	Configures the USB List so that *all* USB devices that are attached to the client computer are shown. If you deselect this check box, only USB devices that are available for USB redirection are displayed in the USB List. By default, this setting is disabled.

3.6. Smart Card Tab

You use the Smart Card tab to enable access to smart card readers attached to the client computer running Oracle Virtual Desktop Client.

Table 3.7, “Smart Card Tab” shows the available settings for this tab.

Table 3.7. Smart Card Tab

Setting	Description
Enable Smart Card	Enables you to log in to a session using a smart card.
Smart Card Reader	The available smart card readers on the client computer are shown. Select a smart card reader from the list. The Auto option automatically selects the first available smart card reader. The smart card reader that you select can be used for hotdesking, and by applications for such tasks as authentication or message signing.

3.7. Audio Tab

The Audio tab enables you to configure Oracle Virtual Desktop Client for audio playback and audio recording on the client computer.

Table 3.8, “Audio Tab” shows the available settings for this tab.

Table 3.8. Audio Tab

Setting	Description
Enable Audio Playback	Enables you to play audio from the session on the client computer. Select from the available audio devices on the client computer.
Enable Audio Record	Enables you to record audio from the client computer in a session. Select from the available audio devices on the client computer.

Chapter 4. Running Oracle Virtual Desktop Client From the Command Line

This chapter describes how you can use the `ovdc` command to configure and run Oracle Virtual Desktop Client from the command line. Supported options for the `ovdc` command are described.

4.1. Using the ovdc Command

Oracle Virtual Desktop Client can be run in command line mode on all supported platforms.

To configure and run Oracle Virtual Desktop Client from the command line, you use the `ovdc` command in either of the following ways:

```
ovdc

ovdc [ options... ] [ servername | --autoconnect ]
```

where *`servername`* is the name of the server you want to connect to. The `--autoconnect` option finds a server on your network automatically.

If the `ovdc` command is used with no command-line arguments, the Oracle Virtual Desktop Client connect screen is shown.

The connect screen is not shown if a *`servername`* is specified, or when the `--autoconnect` option is used.

The location of the `ovdc` binary depends on the installation platform, as follows:

- **Microsoft Windows platforms.** `C:\Program Files\Oracle\Virtual Desktop Client\ovdc.exe`
- **Mac OS X platforms.** `/Applications/Oracle Virtual Desktop Client.app/Contents/MacOS/ovdc`
- **Linux platforms.** `/opt/ovdc/ovdc`

4.2. Supported Command Options

The available options for the `ovdc` command are shown in Table 4.1, “Command Options”.

Table 4.1. Command Options

Command Option	Description
`-?` `--help`	Display help for the command.
`-c` `--create-profile`	Create a new profile from the command line, without running Oracle Virtual Desktop Client or displaying the connect screen. Profile settings are saved to the profile file specified by the `--profile` option, or to the default profile if no `--profile` option is supplied. See Section 5.5, “Creating New Profiles From the Command Line” .
`-v` `--version`	Display version information.

Command Option	Description
`--autoconnect`	Use a discovery mechanism, such as DHCP, to select a server on your network automatically. The connect screen is not displayed.
`-f` `--fullscreen`	Display the desktop session using the whole screen area.
`--windowed`	Display the desktop session in a window on screen.
`--size` *`widthxheight`*	Dimensions of the desktop session, in pixels. *`width`* is the width of the desktop session, between 64 and 5120 pixels. *`height`* is the height of the desktop session, between 64 and 5120 pixels.
`--audio`	Enable audio output on the client computer.
`-n` `--noaudio`	Disable audio output on the client computer.
`-i` `--clientid`	Display the client ID for Oracle Virtual Desktop Client.
`-b` *`megabits`* `--bandwidth` *`megabits`*	Maximum bandwidth for the connection, in megabits per second.
`-p` `--span`	Multiple monitors only. Span the display across all screens.
`--nospan`	Multiple monitors only. Show the display on a single monitor.
`-r` *`num`* `--onscreen` *`num`*	Multiple monitors only. Use the specified screen to display the session.
`-a` `--autosize`	Automatically size the desktop session for the client computer.
`--noautosize`	Do not automatically size the desktop session for the client computer.
`--dynamicsessionresize`	Enable dynamic session resizing. The remote session is automatically resized when the local session size changes.
`--nodynamicsessionresize`	Disable dynamic session resizing.
`-m` *`bytes`* `--mtu` *`bytes`*	Maximum Transmission Unit (MTU). The maximum packet size for connections.
`-M` `--mtu-auto-detect`	Enable automatic detection of MTU for connections.
`--no-mtu-auto-detect`	Disable automatic detection of MTU for connections.

Command Option	Description
`--profile` *`profilename`*	Run Oracle Virtual Desktop Client using the settings defined in the specified profile file. For profile files that are not in the default location, enter the full path name to the file. If the `--profile` option is not used, the `default` profile is used for the session. If the *`profilename`* file does not exist, it is created automatically on connection and contains the values from the Settings tabs. **Note** The settings in the profile can be overridden by other command line options. See Section 5.4, “Overriding Profile Settings” .

`-o`
 	
`--force-compression`
	Automatically compress all packets before transmission.

`--noforce-compression`	Do not automatically compress all packets before transmission.

`-e`
 	
`--lossless-compression`
	Use only lossless compression for image data. Disable lossy compression.

`--nolossless-compression`	Use lossy *or* lossless compression for image data.
`-l` *`num`* `--logging-level` *`num`*	Level of log messages to record. 0 = No logging. This is the default setting. 1 = Critical messages 2 = Warnings 3 = Informational messages Logging level is cumulative. For example, selecting log level 3 includes all warnings and critical messages.
`-d` *`num`* `--logging-domains` *`num`*	Categories of log messages to record. 1 = Session 2 = Network 4 = Input 8 = Appliance Link Protocol (ALP) commands 16 = Multimedia 32 = Audio 64 = Display 128 = Smart card

Command Option	Description
	256 = Serial 512 = USB 1024 = Channel For multiple categories, add the values. For example, 33 = Audio + Session, 2047 = All categories.
`-N` *num* `--network` *num*	Protocol used for network connections. 0 = Auto 1 = IPv4 2 = IPv6
`-h` *num* `--hostkey` *num*	Host key, used in keyboard shortcuts for Oracle Virtual Desktop Client. -1 = Disabled 0 = Left Shift 1 = Right Shift 2 = Left Control 3 = Right Control

`-R`
 	
`--audiorec`
	Enable audio input from the client computer.

`-C`
 	
`--noaudiorec`
	Disable audio input from the client computer.

`--logfile`	Name of the log file. If you do not enter a full path name, the log file is stored in the default location.
`--serial`	Enable support for the serial port on the client computer.
`--noserial`	Disable support for the serial port on the client computer.
`--smartcard`	Enable support for using a smart card on the client computer.
`--nosmartcard`	Disable support for using a smart card on the client computer.

`-U`
 	
`--USB`
	Enable support for using a USB device on the client computer.

`--noUSB`	Disable support for using a USB device on the client computer.
`--usbshowall`	In the USB tab, display *all* USB devices attached to the client computer.
`--nousbshowall`	In the USB tab, display a list of USB devices attached to the client computer. The list does not include devices such as keyboard and mouse, which are not usually redirected in a session.

Command Option	Description

`-k num`
 	
`--keyboard-country-code num`
	Country code for the keyboard on the client computer. Oracle Virtual Desktop Client automatically detects the keyboard country code from the operating system on the client computer. Specify a value from 0 to 255 if you want to override this.

`-S`
 	
`--savesecure`
	Enable secure profile entries. Security-sensitive profile entries, such as the client key fingerprint, are not shown in the profile file.

`--nosavesecure`	Disable secure profile entries.

`-P`
 	
`--clipboard`
	Enable clipboard sharing. Allows you to copy and paste between an application running in the remote session and the client computer.
	
	To use copy and paste, the clipboard service must be running on the remote server.

`--noclipboard`	Disable clipboard sharing.

4.2.1. Command Line Examples

The following examples show how you can configure and run Oracle Virtual Desktop Client from the command line.

To start Oracle Virtual Desktop Client and display the connect screen:

```
ovdc
```

To connect to a server on your network automatically, without displaying the connect screen:

```
ovdc --autoconnect
```

To display a full screen session from the server `sr-1.example.com`:

```
ovdc --fullscreen sr-1.example.com
```

To connect using an MTU of 1366 bytes:

```
ovdc --mtu 1366 sr-1.example.com
```

To run Oracle Virtual Desktop Client using the settings defined in the `fullscreenmode` profile:

```
ovdc --profile fullscreenmode sr-1.example.com
```

Chapter 5. Using Profiles

This chapter describes how to configure and run Oracle Virtual Desktop Client using profiles.

5.1. About Profiles

A profile is a text file on the client computer that contains configuration settings for Oracle Virtual Desktop Client.

The first time that you run Oracle Virtual Desktop Client, a default profile called `default` is created. This profile is used automatically when you use the Settings tabs to configure and run Oracle Virtual Desktop Client.

When you run Oracle Virtual Desktop Client from the command line, you can specify a different profile to use for the session. For example:

```
ovdc --profile myprofile sr-1.example.com
```

You can specify a full path name for the profile, as follows:

```
ovdc --profile C:\profiles\myprofile sr-1.example.com
```

If the path to the profile file contains spaces, surround the path with straight quotation marks (").

If you do not specify a full path name for the profile, one of the following default locations is assumed:

- **Microsoft Windows XP platforms.** `C:\Documents and Settings\username\Application Data\OVDC`
- **Microsoft Microsoft Windows 7 platforms.** `C:\Users\username\AppData\Roaming\OVDC`
- **Mac OS X platforms.** `$HOME/.OVDC`
- **Linux platforms.** `$HOME/.OVDC`

If you do not specify a profile name when you run Oracle Virtual Desktop Client from the command line, the `default` profile is used.

Note

You can use multiple profiles at the same time. For example, to run multiple concurrent desktop sessions on the same client computer.

5.1.1. Profiles and Log Files

By default, each profile has a corresponding log file, with the same name as the profile. The log file is stored in the same directory as the profile. You can use the `--logfile` command option to change the name and location of the log file.

Note

By default, logging is disabled for Oracle Virtual Desktop Client. To enable logging, you use the `--logging-level` command option. See the *Sun Ray Software Administration Guide* for more details about configuring logging.

5.2. Creating a New Profile

1. Start Oracle Virtual Desktop Client from the command line, specifying the new profile name.

For example, to create a new profile called `myprofile` in the default location, run the following command:

```
ovdc --profile myprofile
```

Note

To create the profile in a different location, use the full path name with the `--profile` option.

The connect screen is displayed.

2. Configure settings for the new profile.

   Click the **Settings** link.

   Use the Settings tabs to change settings.

3. Click the **Connect** button.

   The configuration settings are saved automatically to a new profile file.

   In this example, the new profile file is called `myprofile`. If logging is enabled, a corresponding log file `myprofile.log` is also created in the same directory.

   To use the new profile when you next start Oracle Virtual Desktop Client, use the following command:

```
ovdc --profile myprofile --autoconnect
```

5.3. Editing a Profile

Profile files are updated automatically when you change settings for Oracle Virtual Desktop Client. Use the following procedure if you need to edit a profile, rather than editing the profile file directly.

1. Start Oracle Virtual Desktop Client from the command line, specifying the profile name.

   For example, to edit a profile in the default location called `fullscreenmode`, run the following command:

```
ovdc --profile fullscreenmode
```

   The connect screen is displayed. Click the **Settings** link to show the settings defined in the `fullscreenmode` profile.

2. Change configuration settings for the profile.

   Use the Settings tabs to change settings.

3. Click the **Connect** button.

   The configuration settings are saved automatically to the profile file.

5.4. Overriding Profile Settings

When you start Oracle Virtual Desktop Client from the command line, you can override one or more of the settings in a profile. The overridden settings are valid for the current session only and are not permanently changed in the profile.

To override profile settings, specify command options for the settings you want to override.

For example, to override the audio setting in a profile in the default location called `myprofile`, run the following command:

```
ovdc --profile myprofile --noaudio sr-1.example.com
```

For example, to override the logging level and screen span settings in the `default` profile, run the following command:

```
ovdc --logging-level 1 --nospan --autoconnect
```

5.5. Creating New Profiles From the Command Line

You can use the `--create-profile` command option to create new profiles from the command line. When you use this option, Oracle Virtual Desktop Client does not run and the connect screen is not displayed.

Any configuration settings you make when using `--create-profile` are saved in the profile. Otherwise, default settings are used. If you specify a server to connect to, the server name is saved in the profile.

If the profile file name already exists, using the `--create-profile` option overwrites it.

For example, to create a new profile in the default location called `myprofile` that connects to the server `sr-1.example.com`, run the following command:

```
ovdc --profile myprofile --create-profile sr-1.example.com
```

Note

To create the profile in a different location, use the full path name with the `--profile` option.

5.6. Using Multiple Profiles

Oracle Virtual Desktop Client supports the use of multiple profiles. For example, you might want to use different settings depending on which server you connect to.

Save the required settings for each desktop session in a profile, as described in Section 5.2, “Creating a New Profile”. You can then specify the required profile when you start Oracle Virtual Desktop Client from the command line, for example:

```
ovdc --profile sr1-profile
```

Note

You can use multiple profiles at the same time. For example, to run multiple concurrent desktop sessions on the same client computer.

Chapter 6. Troubleshooting Oracle Virtual Desktop Client

This chapter provides some troubleshooting information for Oracle Virtual Desktop Client.

6.1. Adjusting the MTU Setting

You can use Oracle Virtual Desktop Client to connect to your server over a Virtual Private Network (VPN). A VPN is typically used to provide secure access to a company's network to people from outside the network, such as employees working from home. See your administrator if you need help to configure your computer for connecting over a VPN.

If you are experiencing problems when using Oracle Virtual Desktop Client over a VPN, you might need to decrease the Maximum Transmission Unit (MTU) setting on the Network tab to allow space for Internet Protocol Security (IPSec) headers.

Alternatively, you can enable the MTU Auto Detect option on the Network tab. Oracle Virtual Desktop Client then detects the optimum MTU setting for your connection automatically. If network conditions change during a session, the MTU setting is adjusted dynamically.

When you enable the MTU Auto Detect setting, any manual MTU settings made using the Maximum Transmission Unit (MTU) field are ignored.

Contact your administrator if you need advice on the required MTU setting for your company's VPN.

6.2. Problems When Connecting to a Sun Ray Server

Sun Ray Software uses an on-screen display (OSD) to show the status of a connection. You can use the OSD to diagnose problems with a connection.

For example, the following OSD icon indicates that the Sun Ray Software has not been enabled for access using Oracle Virtual Desktop Client.

Figure 6.1. Access Not Enabled OSD Icon

If you are unable to connect to the Sun Ray server and this icon is displayed, contact your administrator.

Your firewall configuration might prevent you from connecting to the Sun Ray server. Check that the firewall settings on your computer allow you to use Oracle Virtual Desktop Client to access the Internet.

6.3. Improving the Display Quality

By default, a Sun Ray server automatically compensates for changes in network conditions by compressing image data when necessary. This can sometimes lead to a loss of display quality.

If you want the best possible display quality, regardless of network conditions, select the Lossless Compression setting on the Network tab.

6.4. Setting The Display Size For a Desktop Session

You set the display size of the desktop session using the settings on the Display tab. See Section 3.1, “Display Tab” for more details about the available settings.

The Auto Size option automatically adjusts the size of the desktop session display to fit the client computer screen.

If Full Screen is selected, the display takes up the whole of the screen. If Window is selected, the desktop session is shown in a window on screen, which you can resize.

Alternatively, you can define the size of the desktop session display by choosing one of the predefined display sizes, or by entering the required display size.

If Dynamic Session Resize is selected, the remote desktop session is dynamically resized to fit the size of your local Oracle Virtual Desktop Client session.

Note

Policies on a Sun Ray server might result in the actual display size of your session being different to the display size you requested.

6.5. Exiting From a Full-Screen Session

In full screen mode, a toolbar is available which includes icons for minimizing and closing the window. To display the toolbar, move your mouse down to the bottom of the screen.

To exit from a full-screen session, do one of the following:

- Click the window close icon in the toolbar.
- Use the Host-Q key combination

Note

The default Host key is Right Ctrl. You can change the Host key on the Keyboard tab.

6.6. Using Keyboard Shortcuts

Table 6.1, “Keyboard Shortcuts” shows the keyboard shortcuts and user interface features that have been implemented to provide compatibility with Sun Ray Client hot keys.

Table 6.1. Keyboard Shortcuts

Sun Keyboard Shortcut	PC Keyboard Shortcut	Oracle Virtual Desktop Client Equivalent	Description
Mute	Ctrl-Pause-Down	Use the volume slider	Mutes audio output
Louder	Ctrl-Pause-Right	Use the volume slider	Increases audio volume
Softer	Ctrl-Pause-Left	Use the volume slider	Decreases audio volume
Mute-Louder-Softer	Ctrl-Pause-N	Host-N	Displays network connection details

Sun Keyboard Shortcut	PC Keyboard Shortcut	Oracle Virtual Desktop Client Equivalent	Description
Stop-V	Ctrl-Pause-V	Click the Oracle Virtual Desktop Client link on the connect screen	Displays the software version number for Oracle Virtual Desktop Client
Stop-K	Pause-K	Host-N, or use the `--clientid` command option	Displays the client ID for Oracle Virtual Desktop Client

Chapter 7. Uninstalling Oracle Virtual Desktop Client

This chapter describes how to uninstall Oracle Virtual Desktop Client from your computer.

7.1. How to Uninstall Oracle Virtual Desktop Client

Note

To uninstall Oracle Virtual Desktop Client, you must have administrator privileges on the client computer.

You uninstall the Oracle Virtual Desktop Client program as follows:

- **On Microsoft Windows platforms.** Choose the **All Programs**, **Oracle Virtual Desktop Client**, **Uninstall** option in the Windows Start Menu and follow the instructions on screen.
- **On Mac OS X platforms.** In the **Applications** folder, right-click the **Oracle Virtual Desktop Client** icon and choose the **Show Package Contents** option.

  Go to the **Contents**, **MacOS** folder and double-click the **OracleVirtualDesktopClient_Uninstall.tool** icon.
- **On Oracle Linux platforms.** Run the following command.

  ```
  # rpm -e ovdc
  ```
- **On Ubuntu Linux platforms.** Run the following command.

  ```
  # dpkg -r ovdc
  ```

  The Oracle Virtual Desktop Client program files are removed from the client computer.

The Oracle Virtual Desktop Client program files and menu entries are removed from the client computer.

Chapter 8. Third-Party Legal Notices

This chapter contains the legal notices for third-party software used by Oracle Virtual Desktop Client.

8.1. CryptoLib

```
* This is version 1.2 of CryptoLib
*
* The authors of this software are Jack Lacy, Don Mitchell and Matt Blaze
* Copyright (c) 1991, 1992, 1993, 1994, 1995 by AT&T.
* Permission to use, copy, and modify this software without fee
* is hereby granted, provided that this entire notice is included in
* all copies of any software which is or includes a copy or
* modification of this software and in all copies of the supporting
* documentation for such software.
*
* NOTE:
* Some of the algorithms in cryptolib may be covered by patents.
* It is the responsibility of the user to ensure that any required
* licenses are obtained.
*
*
* SOME PARTS OF CRYPTOLIB MAY BE RESTRICTED UNDER UNITED STATES EXPORT
* REGULATIONS.
*
*
* THIS SOFTWARE IS BEING PROVIDED "AS IS", WITHOUT ANY EXPRESS OR IMPLIED
* WARRANTY. IN PARTICULAR, NEITHER THE AUTHORS NOR AT&T MAKE ANY
* REPRESENTATION OR WARRANTY OF ANY KIND CONCERNING THE MERCHANTABILITY
* OF THIS SOFTWARE OR ITS FITNESS FOR ANY PARTICULAR PURPOSE.
```

8.1.1. MD5 Message-Digest Algorithm

```
/* MD5C.C - RSA Data Security, Inc., MD5 message-digest algorithm */
/* Copyright (C) 1991, RSA Data Security, Inc. All rights reserved. License to copy and
use this software is granted provided that it is identified as the "RSA Data Security,
Inc. MD5 Message-Digest Algorithm" in all material mentioning or referencing this
software or this function. License is also granted to make and use derivative works
provided that such works are identified as "derived from the RSA Data Security, Inc. MD5
Message-Digest Algorithm" in all material mentioning or referencing the derived work.
RSA Data Security, Inc. makes no representations concerning either the merchantability of
this software or the suitability of this software for any particular purpose. It is
provided "as is" without express or implied warranty of any kind. These notices must be
retained in any copies of any part of this documentation and/or software. */
```